

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	5	((mass near airflow\$3) or (mass near2 air near2 flow\$3) or (air with flowmeter\$1 with mass)) and (backflow\$4 or (back adj flow\$4)) and harmonic\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/24 13:59
L2	42	((mass near airflow\$3) or (mass near2 air near2 flow\$3) or (air with flowmeter\$1 with mass)) and (backflow\$4 or (back adj flow\$4)) and vibration\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/24 14:09
L3	26	((mass near airflow\$3) or (mass near2 air near2 flow\$3) or (air with flowmeter\$1 with mass)) and (backflow\$4 or (back adj flow\$4)) and vibration\$1 and (pulse\$1 or pulsing\$1 or pulsat\$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/24 14:00
L4	23	((mass near airflow\$3) or (mass near2 air near2 flow\$3) or (air with flowmeter\$1 with mass)) and (backflow\$4 or (back adj flow\$4)) and vibration\$1 and (pulse\$1 or pulsing\$1 or pulsat\$6) and (compare\$1 or comparing or comparison\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/24 14:08
L5	23	((mass near airflow\$3) or (mass near2 air near2 flow\$3) or (air with flowmeter\$1 with mass)) and (backflow\$4 or (back adj flow\$4)) and vibration\$1 and (pulse\$1 or pulsing\$1 or pulsat\$6) and (compare\$1 or comparing or comparison\$1) and (ratio or ratios)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/24 14:09
L6	398	(702/56).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/24 14:10
L7	2	I6 and ((mass near airflow\$3) or (mass near2 air near2 flow\$3) or (air with flowmeter\$1 with mass))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/24 14:10
L8	279	(702/127).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/24 14:20

L9	1	I8 and ((mass near airflow\$3) or (mass near2 air near2 flow\$3) or (air with flowmeter\$1 with mass))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/24 14:13
L10	40	(73/861.351).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/24 14:13
L11	0	I10 and ((mass near airflow\$3) or (mass near2 air near2 flow\$3) or (air with flowmeter\$1 with mass))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/24 14:14
L12	2182	(73/116).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/24 14:15
L13	0	I11 and ((mass near airflow\$3) or (mass near2 air near2 flow\$3) or (air with flowmeter\$1 with mass))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/24 14:15
L14	244	(73/1.16).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/24 14:15
L15	2	I14 and ((mass near airflow\$3) or (mass near2 air near2 flow\$3) or (air with flowmeter\$1 with mass))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/24 14:15
L16	1226	(73/861).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/24 14:15
L17	6	I16 and ((mass near airflow\$3) or (mass near2 air near2 flow\$3) or (air with flowmeter\$1 with mass))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/24 14:16
L18	782	(73/118.2).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/24 14:21

L19	204	I18 and ((mass near airflow\$3) or (mass near2 air near2 flow\$3) or (air with flowmeter\$1 with mass))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/24 14:16
L20	49	I18 and ((mass near airflow\$3) or (mass near2 air near2 flow\$3) or (air with flowmeter\$1 with mass)) and magnitude\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/24 14:22
L21	600	(702/108).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/24 14:20
L22	0	I21 and ((mass near airflow\$3) or (mass near2 air near2 flow\$3) or (air with flowmeter\$1 with mass)) and magnitude\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/24 14:20
L23	134	(702/113).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/24 14:20
L24	0	I23 and ((mass near airflow\$3) or (mass near2 air near2 flow\$3) or (air with flowmeter\$1 with mass)) and magnitude\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/24 14:21
L25	1929	(73/118.1).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/24 14:21
L26	43	I25 and ((mass near airflow\$3) or (mass near2 air near2 flow\$3) or (air with flowmeter\$1 with mass)) and magnitude\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/24 14:22
S1	85	"702"/\$.ccls. and ((mass near airflow\$3) or (mass near air near flow\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/23 17:26
S2	14	"702"/\$.ccls. and ((mass near airflow\$3) or (mass near air near flow\$3)) and duct\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/23 17:29

S3	14	"702"/\$.ccls. and ((mass near airflow\$3) or (mass near air near flow\$3)) and (duct\$1 or airduct\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/23 17:26
S4	24	"702"/\$.ccls. and ((mass near airflow\$3) or (mass near air near flow\$3)) and magnitude\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/23 17:33
S5	25	"702"/\$.ccls. and ((mass near airflow\$3) or (mass near2 air near2 flow\$3)) and magnitude\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/23 17:42
S6	0	"702"/\$.ccls. and (air near flowmeter\$1) and magnitude\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/23 17:43
S7	22	"702"/\$.ccls. and (air with flowmeter\$1) and magnitude\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/24 06:59
S8	25	"702"/\$.ccls. and ((mass near airflow\$3) or (mass near2 air near2 flow\$3)) and magnitude\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/24 06:59
S9	22	"702"/\$.ccls. and (air with flowmeter\$1) and magnitude\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/24 07:30
S10	43	S8 or S9	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/24 06:59
S11	1652	((mass near airflow\$3) or (mass near2 air near2 flow\$3) or (air with flowmeter\$1)) and magnitude\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/24 07:31
S12	1405	((mass near airflow\$3) or (mass near2 air near2 flow\$3) or (air with flowmeter\$1 with mass)) and magnitude\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/24 07:31

S13	464	((mass near airflow\$3) or (mass near2 air near2 flow\$3) or (air with flowmeter\$1 with mass)) and magnitude\$1 and (magnitude\$1 with (airflow\$4 or air))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/24 07:32
S14	172	((mass near airflow\$3) or (mass near2 air near2 flow\$3) or (air with flowmeter\$1 with mass)) and magnitude\$1 and (magnitude\$1 with (airflow\$4 or air)) and (duct\$1 or airduct\$1 or conduit\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/24 07:38
S16	232	((mass near airflow\$3) or (mass near2 air near2 flow\$3) or (air with flowmeter\$1 with mass)) and magnitude\$1 and (magnitude\$1 with (airflow\$4 or air)) and (duct\$1 or airduct\$1 or conduit\$4 or pipe or pipes)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/24 09:24
S17	78	((mass near airflow\$3) or (mass near2 air near2 flow\$3) or (air with flowmeter\$1 with mass)) and magnitude\$1 and (magnitude\$1 with (airflow\$4 or air)) and (duct\$1 or airduct\$1 or conduit\$4 or pipe or pipes) and (((mass near airflow\$3) or (mass near2 air near2 flow\$3) or (air with flowmeter\$1 with mass)) same magnitude\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/24 07:58
S18	46	((mass near airflow\$3) or (mass near2 air near2 flow\$3) or (air with flowmeter\$1 with mass)) and magnitude\$1 and (magnitude\$1 with (airflow\$4 or air)) and (duct\$1 or airduct\$1 or conduit\$4 or pipe or pipes) and (((mass near airflow\$3) or (mass near2 air near2 flow\$3) or (air with flowmeter\$1 with mass)) same magnitude\$1) and (convert\$5 or conversion\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/24 09:00
S19	1	FRIE-WERNE	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/24 08:51
S20	17	FRIE-WERNER	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/24 08:51

S21	1	FRIE-WERNER-DR	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/24 08:52
S22	2	FRIE-WERNER-RUDOLF	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/24 08:52
S23	3	HABERER-CHRISTOPH	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/24 08:52
S24	1	LIEDERER-HARALD	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/24 08:52
S25	19	"6098602"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/24 09:00
S26	92	((mass near airflow\$3) or (mass near2 air near2 flow\$3) or (air with flowmeter\$1 with mass)) and magnitude\$1 and (magnitude\$1 with (airflow\$4 or air)) and (duct\$1 or airduct\$1 or conduit\$4 or pipe or pipes) and ((convert\$5 or conversion\$1) with (signal\$1 or output\$2 or output\$2))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/24 09:26
S27	99	((mass near airflow\$3) or (mass near2 air near2 flow\$3) or (air with flowmeter\$1 with mass)) and magnitude\$1 and (magnitude\$1 with (airflow\$4 or air)) and (duct\$1 or airduct\$1 or conduit\$4 or pipe or pipes) and ((convert\$5 or conversion\$1) with (signal\$1 or output\$2 or output\$2 or value\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/24 10:33
S28	153	(((mass near airflow\$3) or (mass near2 air near2 flow\$3) or (air with flowmeter\$1 with mass)) with ((convert\$5 or conversion\$1) with (signal\$1 or output\$2 or output\$2 or value\$1)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/24 13:57

10627992_QUAL.txt

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4523461 66
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4561303 62
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4628688 56
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4776214 56
4784721 56
4789939 56
4843882 56
4844723 56

PLUS Search Results for S/N 10627992, Searched February 24, 2005

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present. PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

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10627992_WEST.txt

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10627992_EAST.txt

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10627992_CLS.txt

Most Frequently Occurring Classifications of Patents Returned
From A Search of 10627992 on February 24, 2005

original classifications

6	73/118.2
5	73/204.26
3	73/204.21
3	123/520
2	73/204.27

Cross-Reference Classifications

3	73/204.26
2	60/307
2	73/1.34
2	73/115
2	73/118.2
2	73/202
2	123/674
2	123/698

Combined Classifications

8	73/118.2
8	73/204.26
3	73/202
3	73/204.21
3	123/520
2	60/307
2	73/1.34
2	73/115
2	73/117.3
2	73/204.27
2	123/674
2	123/698
2	216/2
2	701/103

10627992_CLSTITLES.txt

Titles of Most Frequently Occurring Classifications of Patents Returned
From A Search of 10627992 on February 24, 2005

8 73/118.2 (6 OR, 2 XR)
Class 073 : MEASURING AND TESTING
73/116 MOTOR AND ENGINE TESTING
73/118.1 .Testing auxiliary unit
73/118.2 ..Intake air flow

8 73/204.26 (5 OR, 3 XR)
Class 073 : MEASURING AND TESTING
73/861 VOLUME OR RATE OF FLOW
73/204.11 .Thermal type
73/204.23 ..Having particular electrical heating,
..cooling, or thermal sensing element
73/204.25 ...Resistive element
73/204.26With substrate carrier (e.g., thin film)

3 73/202 (1 OR, 2 XR)
Class 073 : MEASURING AND TESTING
73/861 VOLUME OR RATE OF FLOW
73/202 .Proportional

3 73/204.21 (3 OR, 0 XR)
Class 073 : MEASURING AND TESTING
73/861 VOLUME OR RATE OF FLOW
73/204.11 .Thermal type
73/204.21 ..With fluid flow deflector or restrictor
(e.g., baffle, constriction)

3 123/520 (3 OR, 0 XR)
Class 123 : INTERNAL-COMBUSTION ENGINES
123/434 CHARGE FORMING DEVICE (E.G., POLLUTION CONTROL)
123/518 .Having fuel vapor recovery and storage system
123/519 ..Having an adsorbent canister
123/520 ...Purge valve controlled by engine parameter

2 60/307 (0 OR, 2 XR)
Class 060 : POWER PLANTS
60/272 INTERNAL COMBUSTION ENGINE WITH TREATMENT OR
HANDLING OF EXHAUST GAS
60/282 .By means producing a chemical reaction of a
component of the exhaust gas
60/307 ..Pressurizing means feeds reactive air to
reactor

2 73/1.34 (0 OR, 2 XR)
Class 073 : MEASURING AND TESTING
73/1.01 INSTRUMENT PROVING OR CALIBRATING
73/1.16 .Volume of flow, speed of flow, volume rate of
flow, or mass rate of flow
73/1.34 ..With signal processing, span or set point
adjustment (e.g., zero correction)

2 73/115 (0 OR, 2 XR)
Class 073 : MEASURING AND TESTING
73/112 POWER PLANT OR UNIT EFFICIENCY
73/115 .Pressure derivative

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2 73/117.3 (1 OR, 1 XR)
Class 073 : MEASURING AND TESTING
73/116 MOTOR AND ENGINE TESTING
73/117.2 .Disparate tests under operating conditions
73/117.3 ..With continuous operation

2 73/204.27 (2 OR, 0 XR)
Class 073 : MEASURING AND TESTING
73/861 VOLUME OR RATE OF FLOW
73/204.11 .Thermal type
73/204.23 ..Having particular electrical heating,
cooling, or thermal sensing element
73/204.25 ...Resistive element
73/204.27Wire type (e.g., hot wire)

2 123/674 (0 OR, 2 XR)
Class 123 : INTERNAL-COMBUSTION ENGINES
123/434 CHARGE FORMING DEVICE (E.G., POLLUTION CONTROL)
123/672 .Including exhaust gas condition responsive
means
123/674 ..With modifying or updating memory (i.e.,
learning)

2 123/698 (0 OR, 2 XR)
Class 123 : INTERNAL-COMBUSTION ENGINES
123/434 CHARGE FORMING DEVICE (E.G., POLLUTION CONTROL)
123/672 .Including exhaust gas condition responsive
means
123/698 ..With addition of secondary fluid (e.g., fuel
or exhaust gas)

2 216/2 (1 OR, 1 XR)
Class 216 : ETCHING A SUBSTRATE: PROCESSES
216/2 ETCHING OF SEMICONDUCTOR MATERIAL TO PRODUCE AN
ARTICLE HAVING A NONELECTRICAL FUNCTION

2 701/103 (1 OR, 1 XR)
Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND
RELATIVE LOCATION
701/1 VEHICLE CONTROL, GUIDANCE, OPERATION, OR
INDICATION
701/99 .With indicator or control of power plant
(e.g., performance)
701/101 ..Internal-combustion engine
701/102 ...Digital or programmed data processor
701/103Control of air/fuel ratio or fuel injection

10627992_WDS.txt

ab 1
abe 1
able 2
ables 1
abo 1
about 1
above 2
ac 1
accor 1
accordance 4
accordingly 2
account 2
accukate 1
accuracy 1
accurate 3
acdordance 1
aces 1
achi 1
achieve 1
ack 1
ackflow 1
acteristic 1
activating 1
actual 5
actuators 3
addi 1
addition 3
additional 3
adequate 1
advantage 1
after 3
against 1
age 1
agnitude 1
ahd 1
ai 6
ail 1
air 44
airf 3
airfl 1
airflok 2
airflol 1
airflow 107
airflows 3
airflpw 1
airflqw 1
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ajainst 1
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albeit 1
alpo 1
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also 6
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amdlitudes 1
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amount 3
amounts 2
amp 1
amplifier 1
amplitude 2

10627992_WDS.txt

amplitudes 6
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angle 2
another 5
any 8
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apart 2
apd 2
appear 1
applic 2
application 4
applied 1
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apprgximate 1
appropr 1
appropriate 6
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approximately 1
approximati 1
apture 1
aptured 1
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ara 1
arameter 1
arbitrarily 1
are 32
area 1
arily 1
arise 2
arising 1
arm 3
armonic 1
arms 1
around 1
aroupd 1
arranged 2
arri 1
artic 1
articular 1
as 29
aspect 1
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assembly 1
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ate 1
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ating 1
ation 2
ative 1
ause 1
available 1
aver 1

10627992_WDS.txt

average 11
avoids 1
bac 1
back 1
backf 1
backfl 1
backflo 1
backflok 1
backflops 1
backflow 23
backflows 3
background 1
basi 1
basically 3
basil 1
basis 4
be 56
because 4
become 1
been 2
bef 2
before 4
beforg 1
begulating 1
bein 1
being 6
bell 1
below 2
ber 1
better 1
betw 1
between 8
bf 1
bk 1
ble 2
body 2
bon 1
borne 1
bra 1
bration 5
brations 2
bridge 8
brief 1
broad 2
busti 1
bustion 3
but 9
by 36
ca 1
can 41
cantly 1
captur 1
capture 4
captured 12
capturedr 1
captures 1
capturing 1
capturtd 1
carried 6
carriqd 1
carry 4
carrying 2
case 6

10627992_WDS.txt

cated 1
cause 2
caused 4
cco 1
ce 2
ceeds 1
cf 4
cha 1
change 2
changed 1
charact 1
characteriseic 1
characteristic 9
charactetistic 1
chosen 4
chqracteristic 1
ci 1
circuit 1
ckflows 1
claim 1
claims 1
clea 1
clear 1
cles 1
cln 1
co_11
cohists 1
com 1
combined 1
combu 1
combuseion 1
combust 1
combustion 18
comp 1
comparatively 1
compared 1
compares 1
comparing 1
compensated 1
compensating 1
complicated 1
componeht 1
components 1
comprises 4
comprisin 1
compriyes 1
con 2
conditions 3
connecef 1
connected 9
consecutive 1
consisting 1
constant 4
constderailly 1
constructed 1
construction 2
contexe 1
control 7
controller 9
controllers 1
controlling 1
controls 1
conversion 1

10627992_WDS.txt

converted 2
converter 4
converting 1
cooled 1
cooling 2
cools 1
copverted 1
cor 2
corkection 1
corr 7
corre 1
correaponding 1
corrected 4
correcting 1
correction 8
correspgnding 1
corresphdi 1
correspon 1
correspond 5
corresponding 21
correspondingly 1
corresponds 4
corresppnding 1
corrqsponding 1
costly 1
costs 1
costul 1
cotrected 1
could 2
cpuld 1
crankshaft 2
crankshakt 1
creases 1
ction 1
ctrum 1
cu 2
cuit 1
cular 1
cur 2
current 7
curv 1
curve 16
cyanksha 1
cycle 2
cycles 2
cylinders 3
dan 1
dance 1
data 3
db 6
de 3
deed 1
defined 1
defining 1
deleted 1
demand 1
depend 2
dependent 7
depending 1
depends 2
depepding 1
der 2
described 1

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describes 1
described 1
description 2
designed 1
det 2
detailed 1
details 2
dete 1
dete 1
detect 1
deter 1
determined 1
determin 1
determination 3
determine 9
determined 14
determinedf 1
determines 2
determinin 1
determining 4
determinpd 1
determipe 1
deterpined 1
detertine 1
device 11
devices 5
di 2
diagr 1
diagram 2
diagrams 2
diameter 1
die 3
diff 1
diffe 1
differ 1
differenc 1
difference 4
different 1
differential 1
diffi 1
difficult 2
digital 6
digitiz 1
digitized 6
digitizqd 1
dire 1
direction 10
directiop 1
directly 2
ditional 1
divided 3
dny 1
do 1
doing 2
down 4
downstream 1
dr 1
drawings 2
drawn 4
du 1
duce 1
duct 22
ducts 3
due 1

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during 3
each 5
eak 1
easier 1
ebponding 1
ed 2
eed 1
ef 1
effected 1
effects 1
effeet 1
effort 1
ehe 3
ehen 1
ehgine 1
elceeds 1
element 3
elements 2
elimination 1
embod 1
embodiment 9
embodipent 1
en 2
enable 1
ences 1
eng 2
engin 3
engine 15
engines 4
ent 1
eorrqction 1
eq 1
er 2
erably 1
erating 1
ermit 1
error 2
essary 1
essentially 1
est 2
established 6
establishes 1
establishing 1
estimation 1
eter 1
eu 1
ev 1
even 2
ewly 1
exact 1
examole 1
example 9
examples 1
exceeds 2
excursion 1
executed 1
executes 1
execution 2
exempl 1
exemplary 4
exhaust 1
existence 6
existing 1

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exists 1
expecied 1
explained 1
explicitly 1
expressed 1
extensive 1
extent 2
extrapolated 1
extrapolation 1
fa 1
fact 1
factors 1
familiar 2
famillar 1
family 1
fast 2
faster 1
fect 1
fed 3
feed 1
ferable 1
ferent 1
fft 1
fgr 1
fheh 1
fici 1
ficient 1
field 1
fifst 1
fig 11
filed 1
film 3
find 1
finite 1
fir 1
first 13
flow 15
flowing 1
flowk 1
flows 1
fo 3
follows 1
for 84
form 8
formed 1
forms 2
fort 1
fot 1
found 1
four 2
fourier 7
fpr 1
fr 4
frdm 1
frequ 1
frequehcy 1
frequencies 2
frequency 20
frequendy 1
frequeney 1
frequently 1
from 31
fromrthe 1

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frqquency 1
ft 1
fuel 3
fuh 1
fuhdamental 2
full 1
fun 1
function 7
functional 1
fund 3
fundam 1
fundament 1
fundamental 22
further 6
garded 1
gas 2
ge 1
generally 2
german 1
gibration 1
give 1
given 2
gna 1
gnificantly 1
grap 1
graph 1
great 1
greater 3
ha 3
hafmonic 1
handling 1
hange 1
har 2
harm 1
harmohic 2
harmon 1
harmonic 29
harmonics 4
harmopic 1
has 5
have 3
having 2
he 3
heat 1
heated 9
heating 17
held 1
henc 1
hence 3
her 1
here 3
hereby 1
herq 1
hi 1
hich 1
high 1
higher 2
highest 1
his 1
hofever 1
hot 3
however 9
ibration 1

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ic 1
ication 1
ich 1
ics 1
ideally 1
identif 1
ie 1
ies 1
iete 1
if 24
iff 1
ih 2
ihe 1
ihto 1
ihvention 1
iimes 1
illustrates 1
important 1
improve 1
in 156
include 2
includes 1
incorpo 1
independent 1
indicate 1
indicates 1
indicating 1
induce 1
inducted 2
ine 2
ined 1
inf 1
inferred 1
inflow 1
information 1
ing 7
ingly 1
initially 1
input 2
ins 1
installation 1
instantaneous 2
intake 20
intdke 1
integrate 1
intern 2
internal 21
internll 1
intervais 1
interval 4
intervals 5
into 7
inventi 1
invention 18
invqntion 1
ion 2
iop 1
ipmeni 1
ipto 1
ir 2
ircuit 1
irf 1
irflow 3

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is 117
ists 1
it 29
itized 1
its 12
itude 4
iye 1
jram 1
jthe 1
july 1
khich 1
knduetioq 1
known 2
laplace 1
lar 1
larly 1
last 3
lates 1
latt 1
laying 1
lble 1
lead 2
leads 3
least 6
less 3
lete 1
leve 1
level 19
levels 1
lies 1
linear 3
linearity 2
linked 3
lished 1
lmental 1
lmpatitude 1
ln 1
lo 1
load 4
located 1
logarithms 1
longer 3
low 1
lower 3
lready 2
ls 2
lu 1
lude 1
lup 1
ma 2
made 6
magn 3
magneto 1
magni 1
magnit 1
magnitude 8
magnitudes 2
maintain 2
maintained 1
make 1
makes 2
mal 1
manner 2

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manufact 1
manufacture 1
mas 1
masa 1
mass 125
maxima 1
maximum 5
may 5
mb 1
mbustion 1
means 1
meas 1
measgrement 1
measure 3
measured 3
measurement 4
measutement 1
mechanism 1
memoby 1
memork 1
memory 8
ment 1
mental 3
meters 2
method 13
methods 1
mib 1
mine 1
mines 1
minimum 2
mit 1
mkss 2
mlss 1
mo 1
model 2
modern 1
modes 1
modulaition 1
modulation 17
moduze 1
monic 3
more 6
most 6
moto 1
motor 12
moving 1
mplemented 1
mtored 1
multiple 2
must 1
na 1
nal 1
nals 1
nalysis 1
namely 3
nature 2
ncy 1
nd 1
ne 3
neces 1
necess 1
necessary 6
negative 4

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negligible 1
next 1
ng 2
ngth 1
nic 2
nn 1
no 6
noise 1
non 7
normal 2
not 11
now 1
npt 1
nqgative 1
ns 1
nsforms 1
nta 1
ntly 1
nu 1
num 2
number 4
numher 2
obtain 1
obtained 2
occur 3
occurrence 1
occurs 3
of 253
often 1
ognized 2
ol 1
ombustion 1
ompdr 1
omputation 1
on 26
ona 1
ond 1
one 15
onic 1
onlk 1
only 8
onse 1
onset 1
onspt 1
onwards 1
operating 5
opezating 1
opposite 1
or 36
order 11
ordinates 1
ore 1
ored 1
orm 1
ormation 1
orre 1
orrected 1
os 1
ose 1
other 1
otherwise 1
otherwiser 1
otto 12

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ou 2
out 14
output 15
outputs 2
ove 1
over 3
overlaid 2
overlaying 1
overwri 1
ow 4
pa 1
pade 1
page 21
param 1
parameter 3
parameters 7
part 4
particglar 1
particu 1
particular 13
particularly 5
particuzar 1
partly 2
patent 1
pbssible 1
pe 2
peaks 9
pected 1
pend 1
pendent 1
pensor 1
per 4
perature 1
performed 7
performihg 1
period 1
permanent 1
permit 1
permits 1
pethod 1
pf 1
phase 2
plu 1
plus 1
ply 1
po 1
podulation 1
points 2
portance 1
pose 1
poses 1
posi 1
position 1
positive 1
poss 1
possible 7
power 1
ppreferable 1
pr 3
pre 2
prec 1
precise 1
precisely 2

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predef 1
predefined 1
prefe 1
preferable 7
preferably 1
prefqrable 1
pres 1
prescribe 2
prescribed 11
presence 1
present 2
presentation 1
preyent 1
prilapily 1
principles 1
priority 2
problem 1
procedure 1
procepsor 1
process 1
processor 10
proceysor 1
produ 1
produce 1
product 2
product 1
program 5
programmed 2
propagation 1
property 1
propo 1
provided 1
provides 1
prqferable 1
pti 1
ptured 1
pu 2
puisatory 1
pul 1
puls 3
pulsa 2
pulsating 1
pulsatios 1
pulsation 17
pulsations 10
pulsato 1
pumping 1
pur 1
purp 1
purpose 3
purposes 2
put 1
qav 1
qf 3
qnd 1
qngines 1
quantities 1
quency 1
quently 1
quire 1
quired 1
rable 1
range 3

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rangemehts 1
rapeter 1
rass 1
rat 1
rate 4
rated 1
ratio 9
ration 1
ratios 3
re 3
reach 1
reached 1
reason 1
recent 6
recoghizing 1
recogni 1
recognize 1
recognized 1
redu 1
reduces 1
referable 1
reference 2
referepce 1
refetence 1
region 1
regulat 1
regulates 1
regulating 1
regulation 2
rel 1
relates 2
relationship 1
relative 3
reliably 2
rem 1
remains 1
remen 1
rence 1
rences 1
rength 1
rent 1
replaced 1
represe 1
representation 1
represents 1
reprqsen 1
required 5
requires 2
rescribed 1
resi 1
resistance 6
resistd 1
resistive 1
resistor 18
resistors 2
resonant 1
respec 1
responding 1
responds 1
resul 1
resulting 3
results 2
reverse 1

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revolution 1
rflow 1
rger 1
rh 13
ribed 1
ries 1
ring 1
riod 1
rises 1
ristic 1
rl 2
rmined 1
roe 1
rors 1
rotation 9
rotational 4
rough 1
roughly 1
rpr 1
rqference 1
rr 1
rt 4
rv 4
ry 2
same 3
sampled 2
sampling 4
sape 2
sappling 1
sations 1
saved 6
schematic 1
schematically 1
scribed 3
se 4
search 4
searched 1
sec 1
second 4
secondly 1
segment 3
sehsqr 1
sen 1
senpor 1
sens 1
sensgr 1
sensitive 1
senso 3
sensor 73
sensors 10
sensory 2
sensot 1
senspr 1
senyors 1
seqsor 1
sequence 1
serie 1
series 9
serves 2
set 4
several 1
shaped 1
show 2

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shown 6
shows 3
shqwn 1
si 3
sig 1
signa 1
signal 34
signalp 1
signals 13
signed 1
signif 1
significant 1
significantly 2
simple 1
simpler 1
simplicity 1
simply 1
simul 1
simulated 1
simulatqd 1
since 1
sinupoidal 1
sinusoidal 1
sion 1
sipg 1
siqnal 1
signals 1
sis 1
sive 1
size 2
smaller 1
smooth 1
sne 1
so 12
some 2
sor 3
sp 2
spaced 3
sparing 1
spectra 2
spectrum 3
spectt 1
speed 17
spme 1
spond 1
sponding 4
spondipg 1
sponds 2
ss 1
standard 2
stantaneous 1
start 1
starts 1
state 2
states 1
stgnals 1
still 3
storage 2
stored 2
stores 1
str 1
streng 1
strengihs 1

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strength 6
strengths 1
strong 1
su 1
subject 1
subjected 2
succe 1
successive 2
such 9
suf 1
suitable 1
summary 1
supplementary 2
supplies 1
system 5
tained 1
take 1
taken 2
tapped 3
tapping 1
te 1
technical 1
ted 1
temper 2
temperatu 1
temperature 4
temperqtpe 1
tempetature 1
temporarily 1
temporary 1
teristic 1
termination 1
termined 1
ternal 1
terval 1
tests 1
th 18
tha 1
thai 1
than 11
thar 1
that 26
the 638
theib 1
their 2
them 3
then 21
there 3
therefore 4
thes 1
these 5
they 4
thg 1
things 1
thip 1
third 1
this 26
thl 1
thod 1
those 2
thp 1
thq 1
thqir 1

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thr 1
three 2
threshold 6
throttle 1
through 7
thus 4
ti 1
tier 1
tihe 1
time 22
times 3
timing 1
tio 1
tion 19
tional 2
tions 3
tiop 1
tive 3
tively 1
tixed 1
tlo 1
to 164
together 5
togqther 1
toothed 1
tor 1
toring 1
toward 1
tp 1
tput 1
tputs 1
tract 1
tran 1
transform 2
transforms 3
trol 1
trolled 1
troller 2
trolling 1
trql 1
ts 3
tten 1
tual 1
tude 1
ture 3
tured 1
turn 1
tv 1
tween 1
twi 1
twice 1
two 3
tyo 1
typically 2
tze 1
ude 1
ue 1
ugh 1
ulsations 1
ult 1
ume 1
unc 1
uncorrected 1

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undamentql 1
undergo 1
underlies 1
understand 1
unie 1
uninterrupted 1
unit 7
up 3
uping 1
upstream 1
urthermore 1
us 2
use 14
used 19
uses 1
usin 1
using 8
using 1
utilizes 2
va 1
valges 1
value 30
values 32
valups 1
valuqs 1
valve 1
var 1
vari 1
variabl 1
variable 4
variables 4
varied 1
variety 1
ve 1
very 3
ves 2
vhe 1
via 1
vibkation 1
vibr 14
vibrat 1
vibrati 1
vibratign 2
vibratio 1
vibrationh 1
vibratiohs 1
vibration 58
vibrations 15
vibratiop 2
vibratiops 1
vibrqtions 1
vice 2
viiratio 1
vol 1
voltage 2
vstroke 1
wavelet 1
way 7
waya 1
were 1
what 1
wheel 1
wheh 1

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when 11
where 1
whereas 1
whereby 2
whi 2
which 77
whidh 1
whieh 1
will 6
wire 7
wiring 1
with 43
within 2
work 5
working 1
works 1
ws 1
values 2
yibrations 1
yotation 1
ysis 2
zero 1
zi 1
zing 1